

AMENDED CLAIMS

[Received by the International Bureau on 16 December 2003 (16.12.03)]
original claims 1-4 amended; original claims 9-18 cancelled; new claims 9-12 added]

1. A method for hydrodewaxing feeds to produce a lube basestock having improved low temperature properties which comprises:
 - a) contacting the feed with a unitized mixed powder pellet catalyst under hydrodewaxing conditions, said catalyst comprising:
 - i) at least one first component selected from 10 and 12 ring molecular sieves and mixtures thereof having a metal hydrogenation component dispersed thereon;
 - ii) at least one second component selected from 10 and 12 ring molecular sieves and mixtures thereof having a metal hydrogenation component dispersed thereon; and
 - iii) wherein said first and second components are present in a ratio such that when evaluated in the conversion of methyl cyclohexane at 320°C to 1,1-dimethylcyclopentane, 1,2-dimethylcyclopentane, 1,3-dimethylcyclopentane and ethylcyclopentane, the catalyst will provide a trans-1,2-/trans-1,3-dimethylcyclopentane ratio in the range of about 1:1 to about 1:2 and a selectivity to ethylcyclopentane, at 10% conversion, of at least about 50%.
2. The process of claim 1 wherein the 10 and 12 ring molecular sieves are selected from alumino silicates and alumino phosphates.
3. The process of claim 2 wherein the alumino silicates are selected from ZSM-5, ZSM-11, ZSM-12, ZSM-22, ZSM-23, ZSM-35, natural and synthetic ferrierites, ZSM-48, ZSM-57, Beta Mordenite, Offretite, ECR-42, MCM-71, and ITQ-13.

~~19-15~~

4. The process according to claim 3 wherein said at least one first component is selected from ITQ-13, ZSM-57, and mixtures thereof, and said at least one second component is selected from ZSM-22, ZSM-23, ZSM-35, ZSM-48, SSZ-31, and mixtures thereof.
5. The process of claim 4 wherein said at least one first component is ITQ-13 and said at least one second component is selected from ZSM-48, ZSM-35, ZSM-22, ZSM-23, ZSM-57, SSZ-31, and mixtures thereof.
6. The process of claim 2 wherein in the second component when evaluated in the conversion of methylcyclohexane at 320°C will exhibit a selectivity for ECP formation of at least 50% or greater.
7. The process of claim 1 wherein the feed is solvent dewaxed to a pour point of up to +10°C.
8. The process of claim 1 wherein the feed is hydrotreated at temperatures in the range 280°C to 400°C, at pressures in the range 500 to 3000 psi, hydrogen treat gas rate in the range of 500 to 5000 SCF/bbl and a flow velocity in the range 0.1 to 5 LHSV.
9. The method of claim 1 wherein the metal hydrogenation component is at least one of a Group VI or Group VIII metal.
10. The method of claim 2 wherein the metal hydrogenation component is at least one Group VIII metal.

~~20 16~~

11. The method of claim 10 wherein the metal hydrogenation component is selected from Pt, Pd, and mixtures thereof.
12. The method of claim 1 wherein the hydrogenation component is dispersed in an amount ranging from about 0.1 wt.% to about 30 wt.%.